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<170> PatentIn version 3.2

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 site of hCMV-G

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<400> 15

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Gly Gly Ala Ala Arg Ala Leu Ala His Gly Val Arg Val Leu Glu Asp
20 25 30

Gly Val Asn Tyr Ala Thr Gly Asn Leu Pro Gly Cys Phe Phe Ser Ile
35 40 45

Phe Leu Leu Ala Leu Leu Ser Cys Leu Thr Val Pro Ala Ser Ala Tyr
50 55 60

Gln Val Arg Asn Ser Ser Gly Leu Tyr His Val Thr Asn Asp Cys Pro
65 70 75 80

Asn Ser Ser Ile Val Tyr Glu Ala Ala Asp Ala Ile Leu His Thr Pro
85 90 95

Gly Cys Val Pro Cys Val Arg Glu Gly Asn Ala Ser Arg Cys Trp Val
100 105 110

Ala Val Thr Pro Thr Val Ala Thr Arg Asp Gly Lys Leu Pro Thr Thr
115 120 125

Gln Leu Arg Arg His Ile Asp Leu Leu Val Gly Ser Ala Thr Leu Cys
130 135 140

Ser Ala Leu Tyr Val Gly Asp Leu Cys Gly Ser Val Phe Leu Val Gly
145 150 155 160

Gln Leu Phe Thr Phe Ser Pro Arg Arg His Trp Thr Thr Gln Ser Cys
165 170 175

Asn Cys Ser Ile Tyr Pro Gly His Ile Thr Gly His Arg Met Ala Trp
 180 185 190

Asp Met Met Met Asn Trp Ser Pro Thr Ala Ala Leu Val Val Ala Gln
 195 200 205

Leu Leu Arg Ile Pro Gln Ala Ile Met Asp Met Ile Ala Gly Ala His
 210 215 220

Trp Gly Val Leu Ala Gly Ile Ala Tyr Phe Ser Met Val Gly Asn Trp
 225 230 235 240

Ala Lys Val Leu Val Val Leu Leu Leu Phe Ala Gly Val Asp Ala Glu
 245 250 255

Thr His Val Thr Gly Gly Ser Ala Gly His Thr Thr Ala Gly Leu Val
 260 265 270

Gly Leu Leu Thr Pro Gly Ala Lys Gln Asn Ile Gln Leu Ile Asn Thr
 275 280 285

Asn Gly Ser Trp His Ile Asn Ser Thr Ala Leu Asn Cys Asn Asp Ser
 290 295 300

Leu Thr Thr Gly Trp Leu Ala Gly Leu Phe Tyr Arg His Lys Phe Asn
 305 310 315 320

Ser Ser Gly Cys Pro Glu Arg Leu Ala Ser Cys Arg Arg Leu Thr Asp
 325 330 335

Phe Ala Gln Gly Trp Gly Pro Ile Ser Tyr Ala Asn Gly Ser Gly Leu
 340 345 350

Asp Glu Arg Pro Tyr Cys Trp His Tyr Pro Pro Arg Pro Cys Gly Ile
 355 360 365

Val Pro Ala Lys Ser Val Cys Gly Pro Val Tyr Cys Phe Thr Pro Ser
 370 375 380

Pro Val Val Val Gly Thr Thr Asp Arg Ser Gly Ala Pro Thr Tyr Ser
 385 390 395 400

Trp Gly Ala Asn Asp Thr Asp Val Phe Val Leu Asn Asn Thr Arg Pro
 405 410 415

Pro Leu Gly Asn Trp Phe Gly Cys Thr Trp Met Asn Ser Thr Gly Phe

420	425	430
Thr Lys Val Cys Gly Ala Pro Pro Cys Val Ile Gly Gly Val Gly Asn 435 440 445		
Asn Thr Leu Leu Cys Pro Thr Asp Cys Phe Arg Lys His Pro Glu Ala 450 455 460		
Thr Tyr Ser Arg Cys Gly Ser Gly Pro Trp Ile Thr Pro Arg Cys Met 465 470 475 480		
Val Asp Tyr Pro Tyr Arg Leu Trp His Tyr Pro Cys Thr Ile Asn Tyr 485 490 495		
Thr Ile Phe Lys Val Arg Met Tyr Val Gly Gly Val Glu His Arg Leu 500 505 510		
Glu Ala Ala Cys Asn Trp Thr Arg Gly Glu Arg Cys Asp Leu Glu Asp 515 520 525		
Arg Asp Arg Ser Glu Leu Ser Pro Leu Leu Leu Ser Thr Thr Gln Trp 530 535 540		
Gln Val Leu Pro Cys Ser Phe Thr Thr Leu Pro Ala Leu Ser Thr Gly 545 550 555 560		
Leu Ile His Leu His Gln Asn Ile Val Asp Val Gln Tyr Leu Tyr Gly 565 570 575		
Val Gly Ser Ser Ile Ala Ser Trp Ala Ile Lys Trp Glu Tyr Val Val 580 585 590		
Leu Leu Phe Leu Leu Leu Ala Asp Ala Arg Val Cys Ser Cys Leu Trp 595 600 605		
Met Met Leu Leu Ile Ser Gln Ala Glu Ala Ala Leu Glu Asn Leu Val 610 615 620		
Ile Leu Asn Ala Ala Ser Leu Ala Gly Thr His Gly Leu Val Ser Phe 625 630 635 640		
Leu Val Phe Phe Cys Phe Ala Trp Tyr Leu Lys Gly Arg Trp Val Pro 645 650 655		
Gly Ala Val Tyr Ala Phe Tyr Gly Met Trp Pro Leu Leu Leu Leu Leu 660 665 670		

Leu Ala Leu Pro Gln Arg Ala Tyr Ala Glx
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Arg Arg Pro Gln Asp Val Lys Phe Pro Gly Gly Gly Gln Ile Val Gly
20 25 30

Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Ala
35 40 45

Thr Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro
50 55 60

Ile Pro Lys Ala Arg Arg Pro Glu Gly Arg Thr Trp Ala Gln Pro Gly
65 70 75 80

Tyr Pro Trp Pro Leu Tyr Gly Asn Glu Gly Cys Gly Trp Ala Gly Trp
85 90 95

Leu Leu Ser Pro Arg Gly Ser Arg Pro Ser Trp Gly Pro Thr Asp Pro
100 105 110

Arg Arg Arg Ser Arg Asn Leu Gly Lys Val Ile Asp Thr Leu Thr Cys
115 120 125

Gly Phe Ala Asp Leu Met Gly Tyr Ile Pro Leu Val Gly Ala Pro Leu
130 135 140

Gly Gly Ala Ala Arg Ala Leu Ala His Gly Val Arg Val Leu Glu Asp
145 150 155 160

Gly Val Asn Tyr Ala Thr Gly Asn Leu Pro Gly Cys Ser Phe Ser Ile
165 170 175

Phe Leu Leu Ala Leu Leu Ser Cys Leu Thr Val Pro Ala Ser Ala Tyr
180 185 190

Gln Val Arg Asn Ser Ser Gly Leu Tyr His Val Thr Asn Asp Cys Pro
195 200 205

Asn Ser Ser Ile Val Tyr Glu Ala Ala Asp Ala Ile Leu His Thr Pro
210 215 220

Gly Cys Val Pro Cys Val Arg Glu Gly Asn Ala Ser Arg Cys Trp Val
225 230 235 240

Ala Val Thr Pro Thr Val Ala Thr Arg Asp Gly Lys Leu Pro Thr Thr
245 250 255

Gln Leu Arg Arg His Ile Asp Leu Leu Val Gly Ser Ala Thr Leu Cys
260 265 270

Ser Ala Leu Tyr Val Gly Asp Leu Cys Gly Ser Val Phe Leu Val Gly
275 280 285

Gln Leu Phe Thr Phe Ser Pro Arg Arg His Trp Thr Thr Gln Asp Cys
290 295 300

Asn Cys Ser Ile Tyr Pro Gly His Ile Thr Gly His Arg Met Ala Trp
305 310 315 320

Asp Met Met Met Asn Trp Ser Pro Thr Ala Ala Leu Val Val Ala Gln
325 330 335

Leu Leu Arg Ile Pro Gln Ala Ile Met Asp Met Ile Ala Gly Ala His
340 345 350

Trp Gly Val Leu Ala Gly Ile Ala Tyr Phe Ser Met Val Gly Asn Trp
355 360 365

Ala Lys Val Leu Val Val Leu Leu Leu Phe Ala Gly Val Asp Ala Glu
370 375 380

Thr His Val Thr Gly Gly Ser Ala Gly Arg Thr Thr Ala Gly Leu Val
385 390 395 400

Gly Leu Leu Thr Pro Gly Ala Lys Gln Asn Ile Gln Leu Ile Asn Thr
405 410 415

Asn Gly Ser Trp His Ile Asn Ser Thr Ala Leu Asn Cys Asn Glu Ser
420 425 430

Leu Asn Thr Gly Trp Leu Ala Gly Leu Phe Tyr Gln His Lys Phe Asn
435 440 445

Ser Ser Gly Cys Pro Glu Arg Leu Ala Ser Cys Arg Arg Leu Thr Asp
450 455 460

Phe Ala Gln Gly Trp Gly Pro Ile Ser Tyr Ala Asn Gly Ser Gly Leu
465 470 475 480

Asp Glu Arg Pro Tyr Cys Trp His Tyr Pro Pro Arg Pro Cys Gly Ile
485 490 495

Val Pro Ala Lys Ser Val Cys Gly Pro Val Tyr Cys Phe Thr Pro Ser
500 505 510

Pro Val Val Val Gly Thr Thr Asp Arg Ser Gly Ala Pro Thr Tyr Ser
515 520 525

Trp Gly Ala Asn Asp Thr Asp Val Phe Val Leu Asn Asn Thr Arg Pro
530 535 540

Pro Leu Gly Asn Trp Phe Gly Cys Thr Trp Met Asn Ser Thr Gly Phe
545 550 555 560

Thr Lys Val Cys Gly Ala Pro Pro Cys Val Ile Gly Gly Val Gly Asn
 565 570 575

Asn Thr Leu Leu Cys Pro Thr Asp Cys Phe Arg Lys His Pro Glu Ala
 580 585 590

Thr Tyr Ser Arg Cys Gly Ser Gly Pro Trp Ile Thr Pro Arg Cys Met
 595 600 605

Val Asp Tyr Pro Tyr Arg Leu Trp His Tyr Pro Cys Thr Ile Asn Tyr
 610 615 620

Thr Ile Phe Lys Val Arg Met Tyr Val Gly Gly Val Glu His Arg Leu
 625 630 635 640

Glu Ala Ala Cys Asn Trp Thr Arg Gly Glu Arg Cys Asp Leu Glu Asp
 645 650 655

Arg Asp Arg Ser Glu Leu Ser Pro Leu Leu Leu Ser Thr Thr Gln Trp
 660 665 670

Gln Val Leu Pro Cys Ser Phe Thr Thr Leu Pro Ala Leu Ser Thr Gly
 675 680 685

Leu Ile His Leu His Gln Asn Ile Val Asp Val Gln Tyr Leu Tyr Gly
 690 695 700

Val Gly Ser Ser Ile Ala Ser Trp Ala Ile Lys Trp Glu Tyr Val Val
 705 710 715 720

Leu Leu Phe Leu Leu Leu Ala Asp Ala Arg Val Cys Ser Cys Leu Trp
 725 730 735

Met Met Leu Leu Ile Ser Gln Ala Glu Ala Ala Leu Glu Asn Leu Val
 740 745 750

Ile Leu Asn Ala Ala Ser Leu Ala Gly Thr His Gly Leu Val Ser Phe
 755 760 765

Leu Val Phe Phe Cys Phe Ala Trp Tyr Leu Lys Gly Arg Trp Val Pro
 770 775 780

Gly Ala Val Tyr Ala Phe Tyr Gly Met Trp Pro Leu Leu Leu Leu Leu
 785 790 795 800

Leu Ala Leu Pro Gln Arg Ala Tyr Ala Leu Asp Thr Glu Val Ala Ala

805	810	815
Ser Cys Gly Gly Val Val Leu Val Gly Leu Met Ala Leu Thr Leu Ser		
820	825	830
Pro Tyr Tyr Lys Arg Tyr Ile Ser Trp Cys Met Trp Trp Leu Gln Tyr		
835	840	845
Phe Leu Thr Arg Val Glu Ala Gln Leu His Val Trp Val Pro Pro Leu		
850	855	860
Asn Val Arg Gly Gly Arg Asp Ala Val Ile Leu Leu Met Cys Val Val		
865	870	875
His Pro Thr Leu Val Phe Asp Ile Thr Lys Leu Leu Leu Ala Ile Phe		
885	890	895
Gly Pro Leu Trp Ile Leu Gln Ala Ser Leu Leu Lys Val Pro Tyr Phe		
900	905	910
Val Arg Val Gln Gly Leu Leu Arg Ile Cys Ala Leu Ala Arg Lys Ile		
915	920	925
Ala Gly Gly His Tyr Val Gln Met Ala Ile Ile Lys Leu Gly Ala Leu		
930	935	940
Thr Gly Thr Tyr Val Tyr Asn His Leu Thr Pro Leu Arg Asp Trp Ala		
945	950	955
His Asn Gly Leu Arg Asp Leu Ala Val Ala Val Glu Pro Val Val Phe		
965	970	975
Ser Arg Met Glu Thr Lys Leu Ile Thr Trp Gly Ala Asp Thr Ala Ala		
980	985	990
Cys Gly Asp Ile Ile Asn Gly Leu Pro Val Ser Ala Arg Arg Gly Gln		
995	1000	1005
Glu Ile Leu Leu Gly Pro Ala Asp Gly Met Val Ser Lys Gly Trp		
1010	1015	1020
Arg Leu Leu Ala Pro Ile Thr Ala Tyr Ala Gln Gln Thr Arg Gly		
1025	1030	1035
Leu Leu Gly Cys Ile Ile Thr Ser Leu Thr Gly Arg Asp Lys Asn		
1040	1045	1050

Gln	Val	Glu	Gly	Glu	Val	Gln	Ile	Val	Ser	Thr	Ala	Thr	Gln	Thr
1055						1060					1065			
Phe	Leu	Ala	Thr	Cys	Ile	Asn	Gly	Val	Cys	Trp	Thr	Val	Tyr	His
1070						1075					1080			
Gly	Ala	Gly	Thr	Arg	Thr	Ile	Ala	Ser	Pro	Lys	Gly	Pro	Val	Ile
1085						1090					1095			
Gln	Met	Tyr	Thr	Asn	Val	Asp	Gln	Asp	Leu	Val	Gly	Trp	Pro	Ala
1100						1105					1110			
Pro	Gln	Gly	Ser	Arg	Ser	Leu	Thr	Pro	Cys	Thr	Cys	Gly	Ser	Ser
1115						1120					1125			
Asp	Leu	Tyr	Leu	Val	Thr	Arg	His	Ala	Asp	Val	Ile	Pro	Val	Arg
1130						1135					1140			
Arg	Arg	Gly	Asp	Ser	Arg	Gly	Ser	Leu	Leu	Ser	Pro	Arg	Pro	Ile
1145						1150					1155			
Ser	Tyr	Leu	Lys	Gly	Ser	Ser	Gly	Gly	Pro	Leu	Leu	Cys	Pro	Ala
1160						1165					1170			
Gly	His	Ala	Val	Gly	Leu	Phe	Arg	Ala	Ala	Val	Cys	Thr	Arg	Gly
1175						1180					1185			
Val	Ala	Lys	Ala	Val	Asp	Phe	Ile	Pro	Val	Glu	Asn	Leu	Glu	Thr
1190						1195					1200			
Thr	Met	Arg	Ser	Pro	Val	Phe	Thr	Asp	Asn	Ser	Ser	Pro	Pro	Ala
1205						1210					1215			
Val	Pro	Gln	Ser	Phe	Gln	Val	Ala	His	Leu	His	Ala	Pro	Thr	Gly
1220						1225					1230			
Ser	Gly	Lys	Ser	Thr	Lys	Val	Pro	Ala	Ala	Tyr	Ala	Ala	Gln	Gly
1235						1240					1245			
Tyr	Lys	Val	Leu	Val	Leu	Asn	Pro	Ser	Val	Ala	Ala	Thr	Leu	Gly
1250						1255					1260			
Phe	Gly	Ala	Tyr	Met	Ser	Lys	Ala	His	Gly	Val	Asp	Pro	Asn	Ile
1265						1270					1275			

Arg	Thr	Gly	Val	Arg	Thr	Ile	Thr	Thr	Gly	Ser	Pro	Ile	Thr	Tyr
1280						1285					1290			
Ser	Thr	Tyr	Gly	Lys	Phe	Leu	Ala	Asp	Gly	Gly	Cys	Ser	Gly	Gly
1295						1300					1305			
Ala	Tyr	Asp	Ile	Ile	Ile	Cys	Asp	Glu	Cys	His	Ser	Thr	Asp	Ala
1310						1315					1320			
Thr	Ser	Ile	Leu	Gly	Ile	Gly	Thr	Val	Leu	Asp	Gln	Ala	Glu	Thr
1325						1330					1335			
Ala	Gly	Ala	Arg	Leu	Val	Val	Leu	Ala	Thr	Ala	Thr	Pro	Pro	Gly
1340						1345					1350			
Ser	Val	Thr	Val	Ser	His	Pro	Asn	Ile	Glu	Glu	Val	Ala	Leu	Ser
1355						1360					1365			
Thr	Thr	Gly	Glu	Ile	Pro	Phe	Tyr	Gly	Lys	Ala	Ile	Pro	Leu	Glu
1370						1375					1380			
Val	Ile	Lys	Gly	Gly	Arg	His	Leu	Ile	Phe	Cys	His	Ser	Lys	Lys
1385						1390					1395			
Lys	Cys	Asp	Glu	Leu	Ala	Ala	Lys	Leu	Val	Ala	Leu	Gly	Ile	Asn
1400						1405					1410			
Ala	Val	Ala	Tyr	Tyr	Arg	Gly	Leu	Asp	Val	Ser	Val	Ile	Pro	Thr
1415						1420					1425			
Ser	Gly	Asp	Val	Val	Val	Val	Ser	Thr	Asp	Ala	Leu	Met	Thr	Gly
1430						1435					1440			
Phe	Thr	Gly	Asp	Phe	Asp	Ser	Val	Ile	Asp	Cys	Asn	Thr	Cys	Val
1445						1450					1455			
Thr	Gln	Thr	Val	Asp	Phe	Ser	Leu	Asp	Pro	Thr	Phe	Thr	Ile	Glu
1460						1465					1470			
Thr	Thr	Thr	Leu	Pro	Gln	Asp	Ala	Val	Ser	Arg	Thr	Gln	Arg	Arg
1475						1480					1485			
Gly	Arg	Thr	Gly	Arg	Gly	Lys	Pro	Gly	Ile	Tyr	Arg	Phe	Val	Ala
1490						1495					1500			

Pro Gly 1505	Glu Arg Pro Ser Gly 1510	Met Phe Asp Ser Ser 1515	Val Leu Cys
Glu Cys 1520	Tyr Asp Ala Gly Cys 1525	Ala Trp Tyr Glu Leu 1530	Thr Pro Ala
Glu Thr 1535	Thr Val Arg Leu Arg 1540	Ala Tyr Met Asn Thr 1545	Pro Gly Leu
Pro Val 1550	Cys Gln Asp His Leu 1555	Glu Phe Trp Glu Gly 1560	Val Phe Thr
Gly Leu 1565	Thr His Ile Asp Ala 1570	His Phe Leu Ser Gln 1575	Thr Lys Gln
Ser Gly 1580	Glu Asn Phe Pro Tyr 1585	Leu Val Ala Tyr Gln 1590	Ala Thr Val
Cys Ala 1595	Arg Ala Gln Ala Pro 1600	Pro Pro Ser Trp Asp 1605	Gln Met Trp
Lys Cys 1610	Leu Ile Arg Leu Lys 1615	Pro Thr Leu His Gly 1620	Pro Thr Pro
Leu Leu 1625	Tyr Arg Leu Gly Ala 1630	Val Gln Asn Glu Val 1635	Thr Leu Thr
His Pro 1640	Ile Thr Lys Tyr Ile 1645	Met Thr Cys Met Ser 1650	Ala Asp Leu
Glu Val 1655	Val Thr Ser Thr Trp 1660	Val Leu Val Gly Gly 1665	Val Leu Ala
Ala Leu 1670	Ala Ala Tyr Cys Leu 1675	Ser Thr Gly Cys Val 1680	Val Ile Val
Gly Arg 1685	Ile Val Leu Ser Gly 1690	Lys Pro Ala Ile Ile 1695	Pro Asp Arg
Glu Val 1700	Leu Tyr Gln Glu Phe 1705	Asp Glu Met Glu Glu 1710	Cys Ser Gln
His Leu 1715	Pro Tyr Ile Glu Gln 1720	Gly Met Met Leu Ala 1725	Glu Gln Phe
Lys Gln	Lys Ala Leu Gly Leu	Leu Gln Thr Ala Ser	Arg Gln Ala

1730		1735		1740
Glu Val Ile Thr Pro Ala Val	Gln Thr Asn Trp Gln	Lys Leu Glu		
1745	1750	1755		
Val Phe Trp Ala Lys His Met	Trp Asn Phe Ile Ser	Gly Ile Gln		
1760	1765	1770		
Tyr Leu Ala Gly Leu Ser Thr	Leu Pro Gly Asn Pro	Ala Ile Ala		
1775	1780	1785		
Ser Leu Met Ala Phe Thr Ala	Ala Val Thr Ser Pro	Leu Thr Thr		
1790	1795	1800		
Gly Gln Thr Leu Leu Phe Asn	Ile Leu Gly Gly Trp	Val Ala Ala		
1805	1810	1815		
Gln Leu Ala Ala Pro Gly Ala	Ala Thr Ala Phe Val	Gly Ala Gly		
1820	1825	1830		
Leu Ala Gly Ala Ala Ile Gly	Ser Val Gly Leu Gly	Lys Val Leu		
1835	1840	1845		
Val Asp Ile Leu Ala Gly Tyr	Gly Ala Gly Val Ala	Gly Ala Leu		
1850	1855	1860		
Val Ala Phe Lys Ile Met Ser	Gly Glu Val Pro Ser	Thr Glu Asp		
1865	1870	1875		
Leu Val Asn Leu Leu Pro Ala	Ile Leu Ser Pro Gly	Ala Leu Val		
1880	1885	1890		
Val Gly Val Val Cys Ala Ala	Ile Leu Arg Arg His	Val Gly Pro		
1895	1900	1905		
Gly Glu Gly Ala Val Gln Trp	Met Asn Arg Leu Ile	Ala Phe Ala		
1910	1915	1920		
Ser Arg Gly Asn His Val Ser	Pro Thr His Tyr Val	Pro Glu Ser		
1925	1930	1935		
Asp Ala Ala Ala Arg Val Thr	Ala Ile Leu Ser Ser	Leu Thr Val		
1940	1945	1950		
Thr Gln Leu Leu Arg Arg Leu	His Gln Trp Ile Ser	Ser Glu Cys		
1955	1960	1965		

Thr Thr 1970	Pro Cys Ser Gly Ser 1975	Trp Leu Arg Asp Ile 1980	Trp Asp Trp
Ile Cys 1985	Glu Val Leu Ser Asp 1990	Phe Lys Thr Trp Leu 1995	Lys Ala Lys
Leu Met 2000	Pro Gln Leu Pro Gly 2005	Ile Pro Phe Val Ser 2010	Cys Gln Arg
Gly Tyr 2015	Arg Gly Val Trp Arg 2020	Gly Asp Gly Ile Met 2025	His Thr Arg
Cys His 2030	Cys Gly Ala Glu Ile 2035	Thr Gly His Val Lys 2040	Asn Gly Thr
Met Arg 2045	Ile Val Gly Pro Arg 2050	Thr Cys Arg Asn Met 2055	Trp Ser Gly
Thr Phe 2060	Pro Ile Asn Ala Tyr 2065	Thr Thr Gly Pro Cys 2070	Thr Pro Leu
Pro Ala 2075	Pro Asn Tyr Lys Phe 2080	Ala Leu Trp Arg Val 2085	Ser Ala Glu
Glu Tyr 2090	Val Glu Ile Arg Arg 2095	Val Gly Asp Phe His 2100	Tyr Val Ser
Gly Met 2105	Thr Thr Asp Asn Leu 2110	Lys Cys Pro Cys Gln 2115	Ile Pro Ser
Pro Glu 2120	Phe Phe Thr Glu Leu 2125	Asp Gly Val Arg Leu 2130	His Arg Phe
Ala Pro 2135	Pro Cys Lys Pro Leu 2140	Leu Arg Glu Glu Val 2145	Ser Phe Arg
Val Gly 2150	Leu His Glu Tyr Pro 2155	Val Gly Ser Gln Leu 2160	Pro Cys Glu
Pro Glu 2165	Pro Asp Val Ala Val 2170	Leu Thr Ser Met Leu 2175	Thr Asp Pro
Ser His 2180	Ile Thr Ala Glu Ala 2185	Ala Gly Arg Arg Leu 2190	Ala Arg Gly

Ser 2195	Pro	Pro	Ser	Met	Ala	Ser 2200	Ser	Ser	Ala	Ser	Gln 2205	Leu	Ser	Ala
Pro 2210	Ser	Leu	Lys	Ala	Thr	Cys 2215	Thr	Ala	Asn	His	Asp 2220	Ser	Pro	Asp
Ala 2225	Glu	Leu	Ile	Glu	Ala	Asn 2230	Leu	Leu	Trp	Arg	Gln 2235	Glu	Met	Gly
Gly 2240	Asn	Ile	Thr	Arg	Val	Glu 2245	Ser	Glu	Asn	Lys	Val 2250	Val	Ile	Leu
Asp 2255	Ser	Phe	Asp	Pro	Leu	Val 2260	Ala	Glu	Glu	Asp	Glu 2265	Arg	Glu	Val
Ser 2270	Val	Pro	Ala	Glu	Ile	Leu 2275	Arg	Lys	Ser	Arg	Arg 2280	Phe	Ala	Arg
Ala 2285	Leu	Pro	Val	Trp	Ala	Arg 2290	Pro	Asp	Tyr	Asn	Pro 2295	Pro	Leu	Val
Glu 2300	Thr	Trp	Lys	Lys	Pro	Asp 2305	Tyr	Glu	Pro	Pro	Val 2310	Val	His	Gly
Cys 2315	Pro	Leu	Pro	Pro	Pro	Arg 2320	Ser	Pro	Pro	Val	Pro 2325	Pro	Pro	Arg
Lys 2330	Lys	Arg	Thr	Val	Val	Leu 2335	Thr	Glu	Ser	Thr	Leu 2340	Ser	Thr	Ala
Leu 2345	Ala	Glu	Leu	Ala	Thr	Lys 2350	Ser	Phe	Gly	Ser	Ser 2355	Ser	Thr	Ser
Gly 2360	Ile	Thr	Gly	Asp	Asn	Thr 2365	Thr	Thr	Ser	Ser	Glu 2370	Pro	Ala	Pro
Ser 2375	Gly	Cys	Pro	Pro	Asp	Ser 2380	Asp	Val	Glu	Ser	Tyr 2385	Ser	Ser	Met
Pro 2390	Pro	Leu	Glu	Gly	Glu	Pro 2395	Gly	Asp	Pro	Asp	Leu 2400	Ser	Asp	Gly
Ser 2405	Trp	Ser	Thr	Val	Ser	Ser 2410	Gly	Ala	Asp	Thr	Glu 2415	Asp	Val	Val

Cys	Cys	Ser	Met	Ser	Tyr	Ser	Trp	Thr	Gly	Ala	Leu	Val	Thr	Pro
2420						2425					2430			
Cys	Ala	Ala	Glu	Glu	Gln	Lys	Leu	Pro	Ile	Asn	Ala	Leu	Ser	Asn
2435						2440					2445			
Ser	Leu	Leu	Arg	His	His	Asn	Leu	Val	Tyr	Ser	Thr	Thr	Ser	Arg
2450						2455					2460			
Ser	Ala	Cys	Gln	Arg	Gln	Lys	Lys	Val	Thr	Phe	Asp	Arg	Leu	Gln
2465						2470					2475			
Val	Leu	Asp	Ser	His	Tyr	Gln	Asp	Val	Leu	Lys	Glu	Val	Lys	Ala
2480						2485					2490			
Ala	Ala	Ser	Lys	Val	Lys	Ala	Asn	Leu	Leu	Ser	Val	Glu	Glu	Ala
2495						2500					2505			
Cys	Ser	Leu	Thr	Pro	Pro	His	Ser	Ala	Lys	Ser	Lys	Phe	Gly	Tyr
2510						2515					2520			
Gly	Ala	Lys	Asp	Val	Arg	Cys	His	Ala	Arg	Lys	Ala	Val	Ala	His
2525						2530					2535			
Ile	Asn	Ser	Val	Trp	Lys	Asp	Leu	Leu	Glu	Asp	Ser	Val	Thr	Pro
2540						2545					2550			
Ile	Asp	Thr	Thr	Ile	Met	Ala	Lys	Asn	Glu	Val	Phe	Cys	Val	Gln
2555						2560					2565			
Pro	Glu	Lys	Gly	Gly	Arg	Lys	Pro	Ala	Arg	Leu	Ile	Val	Phe	Pro
2570						2575					2580			
Asp	Leu	Gly	Val	Arg	Val	Cys	Glu	Lys	Met	Ala	Leu	Tyr	Asp	Val
2585						2590					2595			
Val	Ser	Lys	Leu	Pro	Leu	Ala	Val	Met	Gly	Ser	Ser	Tyr	Gly	Phe
2600						2605					2610			
Gln	Tyr	Ser	Pro	Gly	Gln	Arg	Val	Glu	Phe	Leu	Val	Gln	Ala	Trp
2615						2620					2625			
Lys	Ser	Lys	Lys	Thr	Pro	Met	Gly	Phe	Ser	Tyr	Asp	Thr	Arg	Cys
2630						2635					2640			
Phe	Asp	Ser	Thr	Val	Thr	Glu	Ser	Asp	Ile	Arg	Thr	Glu	Glu	Ala

2645		2650		2655
Ile Tyr Gln Cys Cys Asp Leu Asp Pro Gln Ala Arg Val Ala Ile				
2660		2665		2670
Lys Ser Leu Thr Glu Arg Leu Tyr Val Gly Gly Pro Leu Thr Asn				
2675		2680		2685
Ser Arg Gly Glu Asn Cys Gly Tyr Arg Arg Cys Arg Ala Ser Gly				
2690		2695		2700
Val Leu Thr Thr Ser Cys Gly Asn Thr Leu Thr Cys Tyr Ile Lys				
2705		2710		2715
Ala Arg Ala Ala Cys Arg Ala Ala Gly Leu Gln Asp Cys Thr Met				
2720		2725		2730
Leu Val Cys Gly Asp Asp Leu Val Val Ile Cys Glu Ser Ala Gly				
2735		2740		2745
Val Gln Glu Asp Ala Ala Ser Leu Arg Ala Phe Thr Glu Ala Met				
2750		2755		2760
Thr Arg Tyr Ser Ala Pro Pro Gly Asp Pro Pro Gln Pro Glu Tyr				
2765		2770		2775
Asp Leu Glu Leu Ile Thr Ser Cys Ser Ser Asn Val Ser Val Ala				
2780		2785		2790
His Asp Gly Ala Gly Lys Arg Val Tyr Tyr Leu Thr Arg Asp Pro				
2795		2800		2805
Thr Thr Pro Leu Ala Arg Ala Ala Trp Glu Thr Ala Arg His Thr				
2810		2815		2820
Pro Val Asn Ser Trp Leu Gly Asn Ile Ile Met Phe Ala Pro Thr				
2825		2830		2835
Leu Trp Ala Arg Met Ile Leu Met Thr His Phe Phe Ser Val Leu				
2840		2845		2850
Ile Ala Arg Asp Gln Leu Glu Gln Ala Leu Asn Cys Glu Ile Tyr				
2855		2860		2865
Gly Ala Cys Tyr Ser Ile Glu Pro Leu Asp Leu Pro Pro Ile Ile				
2870		2875		2880

Gln 2885	Arg	Leu	His	Gly	Leu	Ser 2890	Ala	Phe	Ser	Leu	His 2895	Ser	Tyr	Ser
Pro 2900	Gly	Glu	Ile	Asn	Arg	Val 2905	Ala	Ala	Cys	Leu	Arg 2910	Lys	Leu	Gly
Val 2915	Pro	Pro	Leu	Arg	Ala	Trp 2920	Arg	His	Arg	Ala	Arg 2925	Ser	Val	Arg
Ala 2930	Arg	Leu	Leu	Ser	Arg	Gly 2935	Gly	Arg	Ala	Ala	Ile 2940	Cys	Gly	Lys
Tyr 2945	Leu	Phe	Asn	Trp	Ala	Val 2950	Arg	Thr	Lys	Leu	Lys 2955	Leu	Thr	Pro
Ile 2960	Ala	Ala	Ala	Gly	Arg	Leu 2965	Asp	Leu	Ser	Gly	Trp 2970	Phe	Thr	Ala
Gly 2975	Tyr	Ser	Gly	Gly	Asp	Ile 2980	Tyr	His	Ser	Val	Ser 2985	His	Ala	Arg
Pro 2990	Arg	Trp	Phe	Trp	Phe	Cys 2995	Leu	Leu	Leu	Leu	Ala 3000	Ala	Gly	Val
Gly 3005	Ile	Tyr	Leu	Leu	Pro	Asn 3010	Arg							